



Welcome to the IAP day of the BriX network
Leuven, June 15, 2009

➤ Partners of the IAP P6/23 Network

- ✓ *Instituut voor Kern- en Stralingsfysica (K.U.Leuven)*
 - ✓ *Physique Nucléaire Théorique et Physique Mathématique (U.L.B.)*
 - ✓ *Vakgroep Subatomaire en Stralingsfysica (U.Gent)*
 - ✓ *Studiecentrum voor Kernenergie (SCK•CEN Mol)*
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- ✓ *GANIL - Caen, France*
 - ✓ *GSI - Darmstadt, Germany*
 - ✓ *Universität zu Köln, Germany*
 - ✓ *Centre de Spectrométrie Nucléaire et de Spectométrie de Masse, CSNSM, Orsay, France*

➤ Goals and Workpackages of the IAP P6/23 Network

Goal 1:	• Increase the selectivity of the LISOL laser ion source and optimise the experimental conditions of Penningtrap based projects (WITCH, SHIPTRAP).
Goal 2:	K.U.Leuven, GSI
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Goal 4:	
Goal 5:	
Goal 6:	
Goal 7:	

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Goal 3:	U.L.B., U.Gent
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Goal 3:	• Investigate the properties of key states in light exotic nuclei, compare them with the theoretical models developed within the collaboration, and understand the possible influence on the reaction mechanism at energies around the Coulomb barrier.
Goal 4:	U.L.B., K.U.Leuven, GSI, GANIL
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Goal 5:	• Study the nuclei along the $N=Z$ line elucidating the neutron-proton pairing interaction, verifying isospin symmetry and studying the weak interaction in the atomic nucleus.
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Goal 7:	• Investigate the feasibility of using the high power proton beam that will become available in the MYRRHA accelerator driven system for Belgian fundamental nuclear-physics research.

U.L.B., K.U.Leuven, U.Gent, SCK•CEN, U-Köln

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